

10/573,130

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUL 02	LMEDLINE coverage updated
NEWS	3	JUL 02	SCISEARCH enhanced with complete author names
NEWS	4	JUL 02	CHEMCATS accession numbers revised
NEWS	5	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	6	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	7	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS	8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	9	JUL 30	USGENE now available on STN
NEWS	10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	11	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	12	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	13	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS	14	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	15	AUG 27	USPATOLD now available on STN
NEWS	16	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	17	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	18	SEP 13	FORIS renamed to SOFIS
NEWS	19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	20	SEP 17	CA/CAPLUS enhanced with printed CA page images from 1967-1998
NEWS	21	SEP 17	CAPLUS coverage extended to include traditional medicine patents
NEWS	22	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	23	OCT 02	CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	24	OCT 19	BEILSTEIN updated with new compounds
NEWS	25	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	26	NOV 19	WPIX enhanced with XML display format
NEWS	27	NOV 30	ICSD reloaded with enhancements
NEWS	28	DEC 04	LINPADOCDB now available on STN

10/573,130

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 19:39:26 ON 05 DEC 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 19:39:40 ON 05 DEC 2007

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STRUCTURE FILE UPDATES: 4 DEC 2007 HIGHEST RN 956696-50-7

DICTIONARY FILE UPDATES: 4 DEC 2007 HIGHEST RN 956696-50-7

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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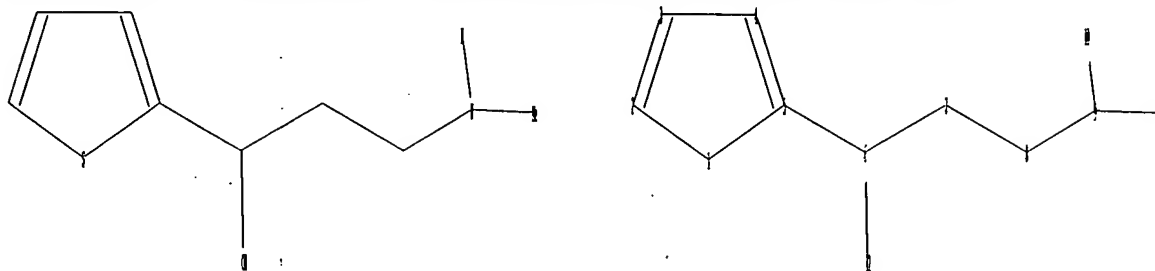
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

10/573,130

Uploading C:\Program Files\Stnexp\Queries\10573130.str



chain nodes :
6 7 8 9 10 11 12
ring nodes :
1 2 3 4 5
chain bonds :
5-6 6-7 6-12 7-8 8-9 9-10 9-11
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
6-12 8-9
exact bonds :
1-2 1-5 2-3 3-4 4-5 5-6 6-7 7-8 9-10 9-11
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 19:39:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 457 TO ITERATE

100.0% PROCESSED 457 ITERATIONS
SEARCH TIME: 00.00.01

3 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7858 TO 10422
PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 19:40:06 FILE 'REGISTRY'

10/573,130

FULL SCREEN SEARCH COMPLETED - 9380 TO ITERATE

100.0% PROCESSED 9380 ITERATIONS
SEARCH TIME: 00.00.01

31 ANSWERS

L3 31 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

173.00

173.21

FILE 'CAPLUS' ENTERED AT 19:41:37 ON 05 DEC 2007

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FILE COVERS 1907 - 5 Dec 2007 VOL 147 ISS 24

FILE LAST UPDATED: 4 Dec 2007 (20071204/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 13

L4 54 L3

=> s 14 and (process or prepar? or syntheses? or make or made or method)

2530039 PROCESS

1723396 PROCESSES

3772499 PROCESS

(PROCESS OR PROCESSES)

1834714 PREPAR?

134389 PREP

2315 PREPS

136488 PREP

(PREP OR PREPS)

2131332 PREPD

10/573,130

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      3 PREPDS
2131334 PREPD
      (PREPD OR PREPDS)
148116 PREPG
      9 PREPGS
148124 PREPG
      (PREPG OR PREPGS)
2864108 PREPN
211609 PREPNS
3023483 PREPN
      (PREPN OR PREPNS)
5087158 PREPAR?
      (PREPAR? OR PREP OR PREPD OR PREPG OR PREPN)
1676096 SYNTHES?
274884 MAKE
213832 MAKES
473229 MAKE
      (MAKE OR MAKES)
1331661 MADE
      26 MADES
1331682 MADE
      (MADE OR MADES)
3569029 METHOD
1425215 METHODS
4592445 METHOD
      (METHOD OR METHODS)
L5      53 L4 AND (PROCESS OR PREPAR? OR SYNTHES? OR MAKE OR MADE OR
METHOD
```

```

=> s 15 and enzyme
      835365 ENZYME
      476050 ENZYMES
1052936 ENZYME
      (ENZYME OR ENZYMES)
```

```
L6      2 L5 AND ENZYME
```

```

=> s 15 and dehydrogenase
172129 DEHYDROGENASE
24655 DEHYDROGENASES
175252 DEHYDROGENASE
      (DEHYDROGENASE OR DEHYDROGENASES)
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```
L7      4 L5 AND DEHYDROGENASE
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=> dup rem 16 17
PROCESSING COMPLETED FOR L6
PROCESSING COMPLETED FOR L7
L8      5,DUP REM L6 L7 (1 DUPLICATE REMOVED)
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=> d 18 ibib abs hitstr hitind 1-5
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L8      ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2007 ACS on STN
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10/573,130

ACCESSION NUMBER: 2007:329401 CAPLUS
DOCUMENT NUMBER: 146:311480
TITLE: Candida dehydrogenases and their use in
production of optically active alkanols
INVENTOR(S): Breuer, Michael; Friedrich, Thomas; Kessler, Maria
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 18pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005044736	A1	20070322	DE 2005-102005044736	20050919
WO 2007033928	A1	20070329	WO 2006-EP66336	20060914
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: DE 2005-102005044736A 20050919

OTHER SOURCE(S): CASREACT 146:311480; MARPAT 146:311480

AB The present invention concerns Candida dehydrogenases for the reduction of substituted alkanols, such as

3-methylamino-1-(2-thienyl)-propane-

1-one. The invention concerns further nucleic acids, which code for these

proteins, nucleic acid constructs, vectors, genetically altered microorganisms as well as procedures for production of optically active substituted alkanols, such as (S)-3-methylamino-1-(2-thienyl)-(S)-propanol.

IT 116539-55-0P

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation);

BIOL

(Biological study); PREP (Preparation)

(Candida dehydrogenases and their use in production of optically active alkanols)

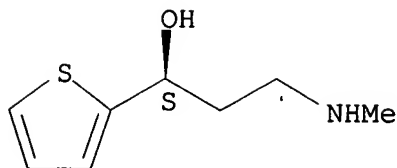
RN 116539-55-0 CAPLUS

CN 2-Thiophenemethanol, α -[2-(methylamino)ethyl]-, (α S)- (CA

INDEX NAME)

Absolute stereochemistry. Rotation (-).

10/573,130



CC 7-2 (Enzymes)

Section cross-reference(s): 3, 10, 16

ST sequence Candida dehydrogenase gene; alkanol prodn
stereospecific redn alkanone Candida dehydrogenase

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2005:324149 CAPLUS

DOCUMENT NUMBER: 142:392275

TITLE: enzymic and nonenzymic methods for the
preparation of 3-methylamino-1-(thien-2-yl)propan-1-ol.

INVENTOR(S): Stuermer, Rainer; Kessler, Maria; Hauer, Bernhard;
Friedrich, Thomas; Breuer, Michael

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033094	A2	20050414	WO 2004-EP10939	20040930
WO 2005033094	A3	20051124		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10345772	A1	20050421	DE 2003-10345772	20031001
EP 1670779	A2	20060621	EP 2004-765718	20040930
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR			
CN 1860110	A	20061108	CN 2004-80028108	20040930
JP 2007533628	T	20071122	JP 2006-530058	20040930

10/573,130

US 2007083055
PRIORITY APPLN. INFO.:

A1 20070412

US 2006-573130 20060517
DE 2003-10345772 A 20031001

WO 2004-EP10939 W 20040930

OTHER SOURCE(S): CASREACT 142:392275

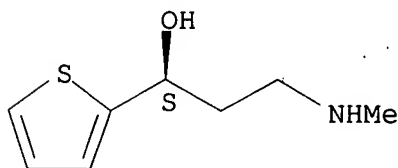
AB The invention relates to enzymic and non-enzymic methods for the production of 3-methylamino-1-(thien-2-yl)propan-1-ol, o enzymes for carrying out said method, nucleic acid sequences coding for said enzymes, expression cassettes containing them, vectors and recombinant hosts. A process for preparation of 3-methylamino-1-(thien-2-yl)propan-1-ol comprises reaction of thiophene with a β -halopropionyl halide or an acryloyl halide in the presence of a Lewis acid to obtain a 3-halo-1-(thien-2-yl)propan-1-one, reduction, and treatment with MeNH₂. A hydrogen halide is added during or after the first reaction step but before isolation of propanone product. (S)-3-methylamino-1-(thien-2-yl)propan-1-ol is prepared via treatment of the propanone with a chiral reducing agent. Thus, thiophene in dichloroethane was treated with AlCl₃ and then with 3-chloropropionyl chloride followed by stirring for 12 h and addition of gaseous HCl to give 96% 3-chloro-1-(thien-2-yl)propan-1-one. The latter in PhMe/MeOH at 0° was treated with 30% aqueous NaOH and then with NaBH₄; after 40 min. aqueous MeNH₂ was added followed by stirring for 6 h at 60° to give 3-methylamino-1-(thien-2-yl)propan-1-ol.

IT 116539-55-0P, (S)-3-Methylamino-1-(thien-2-yl)propan-1-ol
RL: BPN (Biosynthetic preparation); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation)
(enzymic and nonenzymic methods for the preparation of methylaminothienylpropanol)

RN 116539-55-0 CAPLUS

CN 2-Thiophenemethanol, α -[2-(methylamino)ethyl]-, (α S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

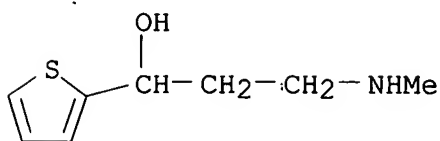


IT 116539-56-1P, 3-Methylamino-1-(thien-2-yl)propan-1-ol
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(enzymic and nonenzymic methods for the preparation of methylaminothienylpropanol)

RN 116539-56-1 CAPLUS

10/573,130

CN 2-Thiophenemethanol, α -[2-(methylamino)ethyl]- (CA INDEX NAME)



IC ICM C07D333-16

CC 27-8 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 16

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:732639 CAPLUS

DOCUMENT NUMBER: 143:192413

TITLE: A chemoenzymic synthesis of enantiomerically pure aminoalcohols

INVENTOR(S): Stuermer, Rainer

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005073215	A1	20050811	WO 2005-EP420	20050118
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004004719	A1	20050818	DE 2004-102004004719	20040129
EP 1713788	A1	20061025	EP 2005-700995	20050118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1914190	A	20070214	CN 2005-80003670	20050118
JP 2007519655	T	20070719	JP 2006-550005	20050118
US 2007128704	A1	20070607	US 2006-587440	20060726
PRIORITY APPLN. INFO.:			DE 2004-102004004719A	20040129

OTHER SOURCE(S): CASREACT 143:192413

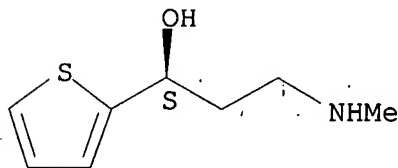
AB A process is provided for the chemoenzymic synthesis of (1S)-3-methylamino-1-(2-thienyl)-propan-1-ol from 3-chloro-1-(2-thienyl)-1-propanone using a three step procedure. First, 3-chloro-1-(2-thienyl)-1-propanone is chemical reduced to 3-chloro-1-(2-thienyl)-1-propanol using sodium borohydride. This product is then stereoselectively acylated succinic anhydride in a kinetic resolution catalyzed by an immobilized lipase. The unreacted 3S-chloro-1-(2-thienyl)-1-propanol is separated from the R conjugate base and then aminated with methylamine to form (1S)-3-methylamino-1-(2-thienyl)-propan-1-ol.

IT 116539-55-0P
RL: IMF (Industrial manufacture); PRP (Properties); PUR (Purification or recovery); PREP (Preparation)
(chemoenzymic synthesis of enantiomerically pure aminoalcs.)

RN 116539-55-0 CAPLUS

CN 2-Thiophenemethanol, α -[2-(methylamino)ethyl]-, (α S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IC ICM C07D333-14
ICS C07D333-20

CC 16-5 (Fermentation and Bioindustrial Chemistry)
Section cross-reference(s): 27

ST chiral aminoalc synthesis chemoenzymic

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:870926 CAPLUS

DOCUMENT NUMBER: 141:348875

TITLE: L-carnitine dehydrogenase and microorganisms
producing L-carnitine dehydrogenase and
their use in production of substituted (S)-alkanols

INVENTOR(S): Althoefer, Henning; Kessler, Maria

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 41 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

10/573,130

LANGUAGE:

FAMILY ACC. NUM. COUNT:

German

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10315760	A1	20041021	DE 2003-10315760	20030407
CA 2521288	A1	20041021	CA 2004-2521288	20040406
WO 2004090094	A2	20041021	WO 2004-EP3655	20040406
WO 2004090094	A3	20050317		
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RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1613745	A2	20060111	EP 2004-725924	20040406
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR			
CN 1771323	A	20060510	CN 2004-80009243	20040406
JP 2006521800	T	20060928	JP 2006-505019	20040406
US 2006211099	A1	20060921	US 2005-552218	20051006
PRIORITY APPLN. INFO.:			DE 2003-10315760	A 20030407
			WO 2004-EP3655	W 20040406

OTHER SOURCE(S): CASREACT 141:348875

AB The present invention concerns proteins, which possess an enzymic activity

for reduction of substituted alkanones, such as

3-methylamino-1-(2-thienyl)-

propane-1-one. Furthermore, the invention concerns nucleic acids which code for these proteins, vectors, and genetically modified

microorganisms

as well as procedures for the production of substituted (S)-alkanols,

e.g.,

(S)-3-methylamino-1-(2-thienyl)-(S)-propanol. This compound may be

used in

the synthesis of duloxetine.

IT 116539-55-0P

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation);

BIOL

(Biological study); PREP (Preparation)

(l-carnitine dehydrogenase and microorganisms producing

L-carnitine dehydrogenase and their use in production of

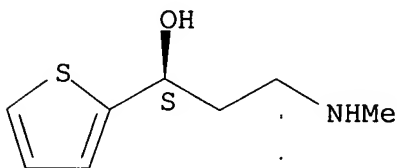
substituted (S)-alkanols)

10/573,130

RN 116539-55-0 CAPLUS

CN 2-Thiophenemethanol, α -[2-(methyamino)ethyl]-, (α S)- (CA
INDEX NAME)

Absolute stereochemistry. Rotation (-).



IC ICM C12N009-04

ICS C12N015-53; C12P017-00; C12P007-02

CC 16-2 (Fermentation and Bioindustrial Chemistry)

Section cross-reference(s): 3, 7

ST carnitine dehydrogenase alkanone redn chiral alkanol duloxetine
synthesis

IT Alcohols, preparation

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation);

BIOL

(Biological study); PREP (Preparation)

(chiral; l-carnitine dehydrogenase and microorganisms

producing L-carnitine dehydrogenase and their use in production
of substituted (S)-alkanols)

IT Agrobacterium

Agrobacterium tumefaciens

Alcaligenes

Archaeoglobus

Archaeoglobus fulgidus

Enterobacteriaceae

Mesorhizobium loti

Molecular cloning

Nocardiaceae

Pseudomonadaceae

Pseudomonas

Pseudomonas aeruginosa

Pseudomonas putida

Rhizobiaceae

Rhizobium

Staphylococcus

Staphylococcus epidermidis

Streptomyces

Streptomyces coelicolor

Streptomycetaceae

Xanthomonas

Xanthomonas campestris

(l-carnitine dehydrogenase and microorganisms producing

L-carnitine dehydrogenase and their use in production of
substituted (S)-alkanols)

IT 775366-21-7, Dehydrogenase, carnitine (Alcaligenes)

10/573,130

775366-22-8 775366-23-9 775366-24-0 775366-25-1 775366-26-2
775366-27-3 775366-28-4 775366-29-5

RL: CAT (Catalyst use); PRP (Properties); USES (Uses)
(amino acid sequence; l-carnitine dehydrogenase and
microorganisms producing L-carnitine dehydrogenase and their
use in production of substituted (S)-alkanols)

IT 116539-55-0P

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation);

BIOL

(Biological study); PREP (Preparation)
(l-carnitine dehydrogenase and microorganisms producing
L-carnitine dehydrogenase and their use in production of
substituted (S)-alkanols)

IT 9028-40-4, E.c. 1.1.1.35 9045-45-8, E.c. 1.1.1.108

RL: CAT (Catalyst use); USES (Uses)
(l-carnitine dehydrogenase and microorganisms producing
L-carnitine dehydrogenase and their use in production of
substituted (S)-alkanols)

IT 667465-15-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(l-carnitine dehydrogenase and microorganisms producing
L-carnitine dehydrogenase and their use in production of
substituted (S)-alkanols)

IT 116539-59-4P, Duloxetine

RL: SPN (Synthetic preparation); PREP (Preparation)
(l-carnitine dehydrogenase and microorganisms producing
L-carnitine dehydrogenase and their use in production of
substituted (S)-alkanols)

IT 775366-20-6

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL
(Biological
study); USES (Uses)
(nucleotide sequence; l-carnitine dehydrogenase and
microorganisms producing L-carnitine dehydrogenase and their
use in production of substituted (S)-alkanols)

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:605494 CAPLUS

DOCUMENT NUMBER: 141:140312

TITLE: 3-Methylamino-1-(2-thienyl)-1-propanone
preparation and its use as a pharmaceutical
intermediate

PATENT ASSIGNEE(S): BASF Ag, Germany

SOURCE: Ger. Offen., 4 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 10302595	A1	20040729	DE 2003-10302595	20030122
CA 2513542	A1	20040805	CA 2004-2513542	20040115
WO 2004065376	A1	20040805	WO 2004-EP237	20040115
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
EP 1587802	A1	20051026	EP 2004-702333	20040115
EP 1587802	B1	20071114		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1742003	A	20060301	CN 2004-80002686	20040115
JP 2006515878	T	20060608	JP 2006-500570	20040115
US 2006128791	A1	20060615	US 2005-542003	20050712
US 7259264	B2	20070821		
IN 2005CN01988	A	20070831	IN 2005-CN1988	20050822
PRIORITY APPLN. INFO.:			DE 2003-10302595	A 20030122
			WO 2004-EP237	W 20040115

AB 3-Methylamino-1-(2-thienyl)-1-propanone and its acid addition salts (e.g.,

the hydrochloride), which are useful as an intermediate in the production of the pharmaceutical (+)-(S)-N-methyl-3-(1-naphthyloxy)-3-(2-thienyl)propylamine oxalate (i.e., Duloxetine oxalate), are prepd

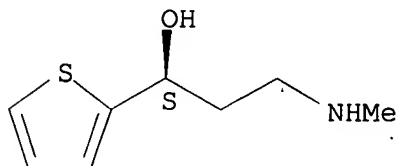
IT 116539-55-0P 116539-56-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 116539-55-0 CAPLUS

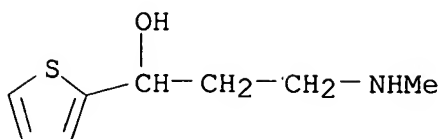
CN 2-Thiophenemethanol, α -[2-(methylamino)ethyl]-, (α S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 116539-56-1 CAPLUS

CN 2-Thiophenemethanol, α -[2-(methylamino)ethyl]- (CA INDEX NAME)



IC ICM C07D333-20
ICS C07D333-10; C12P017-00
CC 27-8 (Heterocyclic Compounds (One Hetero Atom))
ST methylaminothienylpropanone prepn
IT Stereochemistry
(in the preparation of (+)-(S)-N-methyl-3-(1-naphthyloxy)-3-(2-thienyl)propylamine oxalate)
IT 645411-16-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
(Reactant or reagent)
(3-methylamino-1-(2-thienyl)-1-propanone preparation and its use as a pharmaceutical intermediate)
IT 9035-82-9, Dehydrogenase
RL: CAT (Catalyst use); USES (Uses)
(in the prepare of)
IT 5424-47-5 40570-64-7, 3-Chloro-1-(2-thienyl)-1-propanone
494221-37-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(in the preparation of 3-methylamino-1-(2-thienyl)-1-propanone)
IT 74-89-5, Methylamine, reactions
RL: RCT (Reactant); RGT (Reagent); RACT (Reactant or reagent)
(in the preparation of 3-methylamino-1-(2-thienyl)-1-propanone)
IT 116539-59-4P, Duloxetine 116817-77-7P, Duloxetine oxalate
RL: PNU (Preparation, unclassified); PREP (Preparation)
(preparation of)
IT 667465-15-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
(Reactant or reagent)
(preparation of)
IT 116539-55-0P 116539-56-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

46.01

219.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.90

-3.90

10/573,130

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